

CLAIMS

What is claimed is:

1. A method for reporting capabilities of a wireless transmit/receive unit (WTRU) capable of supporting a wireless local area network (WLAN) and a general packet radio system/universal mobile telecommunication system (GPRS/UMTS) network, the method comprising:

said WTRU:

informing a core network of WLAN services it is capable of supporting; and

said GPRS/UMTS network:

providing those services the WTRU identifies it is capable of supporting.

2. The method of claim 1, wherein the WTRU sends a radio access (RA) capability information element (IE) indicating the WLAN interworking and the WLAN capabilities it can support.

3. The method of claim 1, wherein the WTRU sends the capability to support multiple services as part of an information element (IE).

4. The method of claim 3, wherein the WTRU sends a radio access capability (RAC) IE .

5. The method of claim 1, wherein the core network sends the interworking and WLAN capabilities as a part of an information element (IE) to the WTRU.

6. The method of claim 5, wherein the core network sends a network capability (NW) IE.

7. Apparatus for reporting capabilities of a wireless transmit/receive unit (WTRU) capable of supporting both wireless local area network (WLAN) and general packet radio system/universal mobile telecommunication system (GPRS/UMTS) services, comprising:

the WTRU comprising:

means for providing a message informing a core network of WLAN services it is capable of supporting; and

the core network comprising means for providing the services the WTRU identifies it is capable of supporting responsive to said message.

8. The apparatus of claim 7, wherein said means for providing a message comprises:

means for sending the capability to support multiple services.

9. The apparatus of claim 8, wherein said means for sending sends a radio access capability (RAC) IE.

10. The apparatus of claim 7, wherein said means for providing a message comprises:

means for sending the capability to support multiple services as part of an information element (IE).

11. The apparatus of claim 7, wherein the core network comprises:

means for sending interworking and WLAN capabilities to said WTRU.

12. The apparatus of claim 7, wherein the core network comprises:

means for sending interworking and WLAN capabilities to said WTRU as a part of an information element (IE).

13. The apparatus of claim 7, wherein the core network means for sending includes means for sending a network capability (NW) IE.

14. A method for reporting capabilities of a dual-mode wireless transmit/receive unit (WTRU) to a wireless communication network, comprising:

said WTRU informing said network of services said WTRU is capable of supporting;

said network providing services offered to said WTRU; and

said WTRU selecting one of said dual modes to receive services.

15. The method of claim 14, wherein said dual-mode WTRU has a capability of communication with a wireless local area network WLAN and a GPRS/UMTS network and indicates these given capabilities in given bits of an information element (IE).

16. The method of claim 15, wherein said WTRU places a binary state in said given bits to indicate the capability of supporting said services.

17. The method of claim 16, wherein said network inserts binary states into given bits of said IE to identify capabilities of supporting services including SMS capability via a WLAN and SMS capabilities via GPRS channels.

18. The method of claim 16, wherein said WTRU inserts binary states into given bits of said IE to identify capabilities of supporting services including SMS capability via a WLAN and SMS capabilities via GPRS channels.

19. The method of claim 15, wherein said WTRU informs said network of capabilities by transmitting an information element (IE).

20. The method of claim 14, said WTRU further comprising:
communicating with a GPRS network when operating in a first mode; and
communicating with a WLAN when operating on a second mode.

21. The method of claim 14, said WTRU further comprising:
communicating with a UMTS network when operating in a first mode;
and communicating with a WLAN when operating on a second mode.

22. The method of claim 14, wherein said WTRU when selectively receiving a
communication card removably inserted to said WTRU for supporting one of a plurality
of WLAN communication protocols:
provides a message network identifying the inserted communication card.

23. The method of claim 22, wherein said communication protocols include
WLAN 802 protocols and said message identifies the protocol supported by the WTRU.

24. The method of claim 22, wherein said communication protocols include
WLAN 802.11a and WLAN 802.11b.

25. The method of claim 22, wherein said communication protocols include
WLAN 802.11b and WLAN 802.16.

26. The method of claim 14, comprising said WTRU:
transmitting a message having bit positions each identifying a given
WLAN communications protocol; and
inserting a given binary state into that bit which indicates a protocol
supported by the WTRU.

27. A method for reporting capabilities of a wireless transmit/receive unit (WTRU) capable of supporting both wireless local area network (WLAN) and general packet radio system/universal mobile telecommunication system (GPRS/UMTS) services, the method comprising:

said WTRU:

informing a core network of its capability to support both WLAN and GPRS/UMTS services; and

the core network:

sending a radio access capability information element indicating the WLAN interworking and the WLAN capabilities to indicate whether if WLAN interworking is supported, or not.

28. The method of claim 27, further comprising:

said WTRU:

sending a capability to support multiple services as part of an information element (IE).

29. The method of claim 28, wherein the WTRU comprises:

sending a radio access capability (RAC) IE.

30. The method of claim 27, said core network comprising:

sending interworking and WLAN capabilities as a part of an information element (IE).